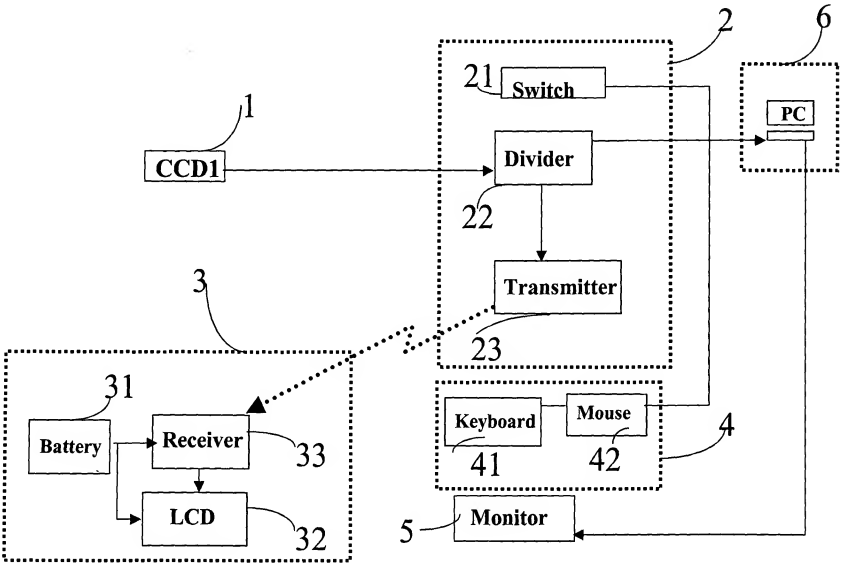
1
CCD1
2
21
Switch
Divider
22
Transmitter
23
6
PC
3
31
Battery
Receiver
33
LCD
32
Keyboard
Mouse
41
42
4
5
Monitor

Fig.1

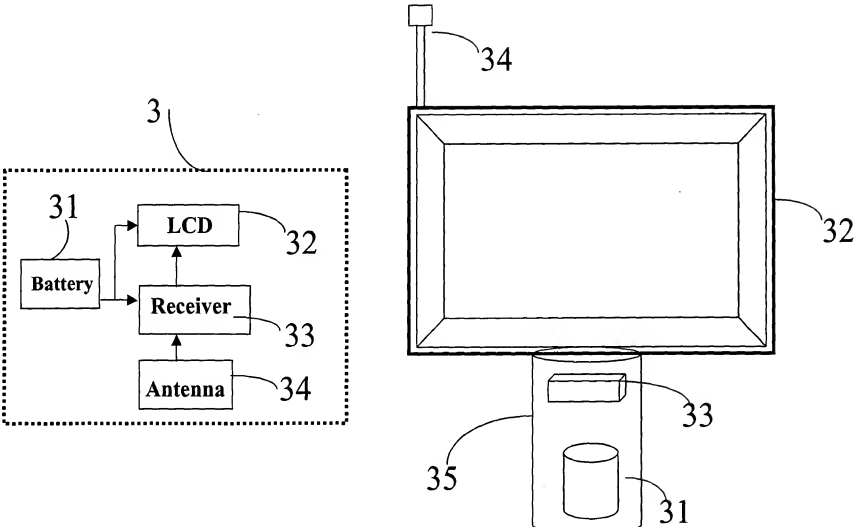

Fig.2

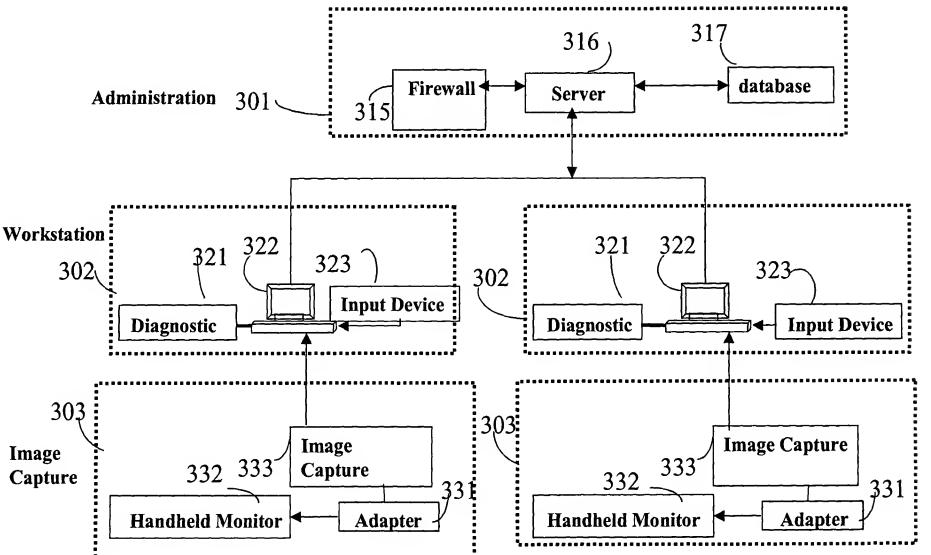
Administration
301
316
317
Firewall
Server
database
315
Workstation
302
321
322
323
Input Device
Diagnostic
302
321
322
323
Diagnostic
Input Device
303
Image Capture
332
333
Image Capture
331
Handheld Monitor
Adapter
303
Image Capture
332
333
331
Handheld Monitor
Adapter

Fig.3

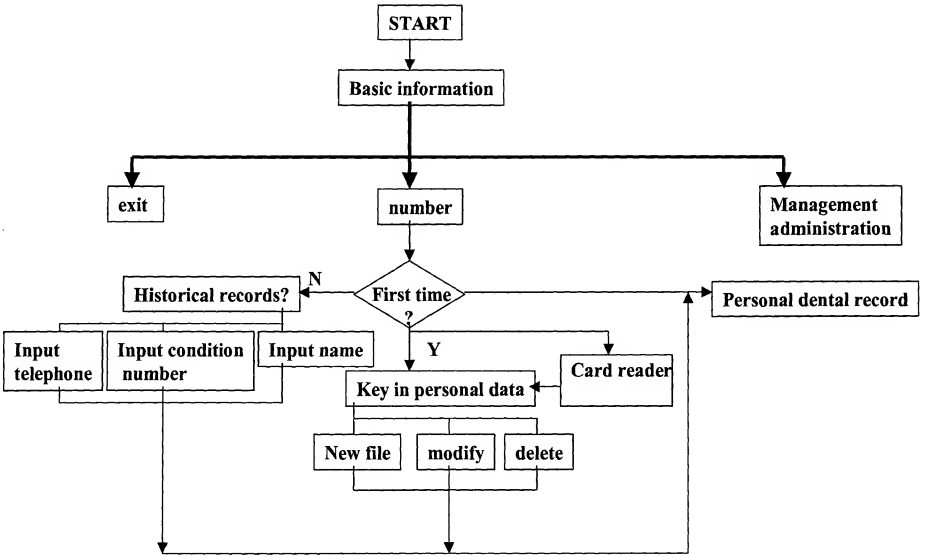
START
Basic information
exit
number
Management administration
Historical records?
N
First time ?
Personal dental record
Input telephone
Input condition number
Input name
Y
Card reader
Key in personal data
New file
modify
delete

Fig.4A

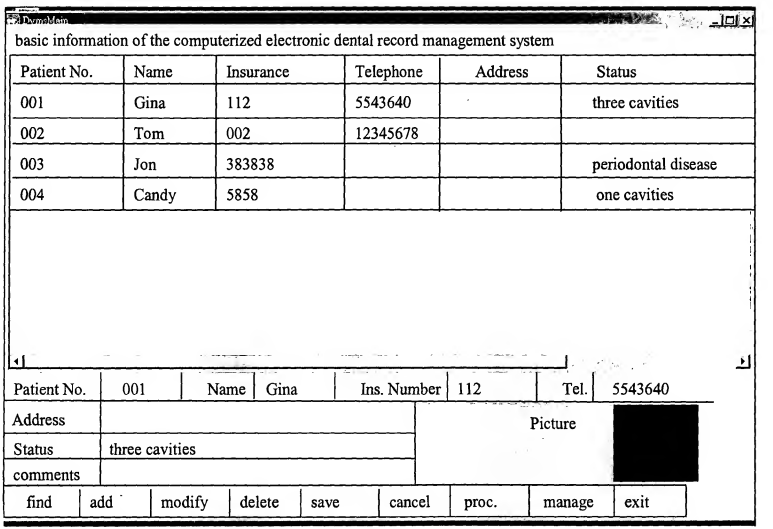
Dbmsblam
basic information of the computerized electronic dental record management system
Patient No.
Name
Insurance
Telephone
Address
Status
001
Gina
112
5543640
three cavities
002
Tom
002
12345678
003
Jon
383838
periodontal disease
004
Candy
5858
one cavities
Patient No.
001
Name
Gina
Ins. Number
112
Tel.
5543640
Address
Picture
Status
three cavities
comments
find
add
modify
delete
save
cancel
proc.
manage
exit

Fig.4B

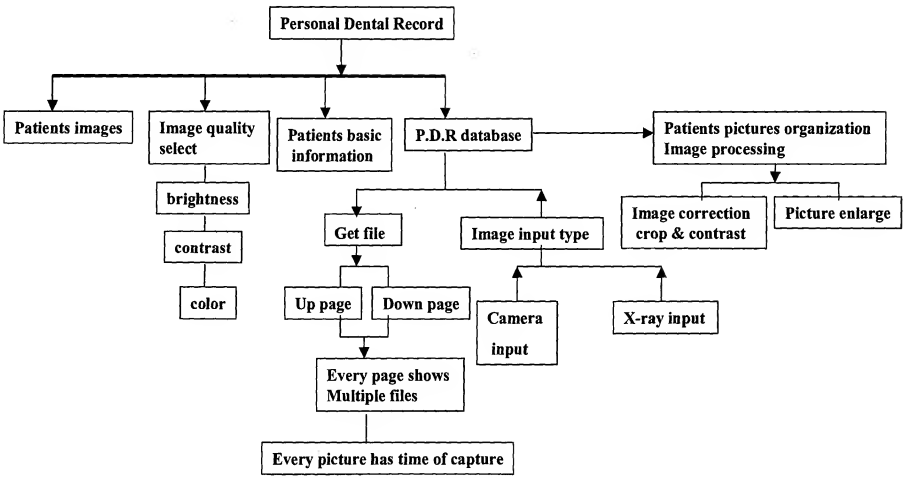
Personal Dental Record
Patients images
Image quality select
Patients basic information
P.D.R database
Patients pictures organization Image processing
brightness
contrast
color
Get file
Image input type
Image correction crop & contrast
Picture enlarge
Up page
Down page
Camera input
X-ray input
Every page shows Multiple files
Every picture has time of capture

Fig.5A

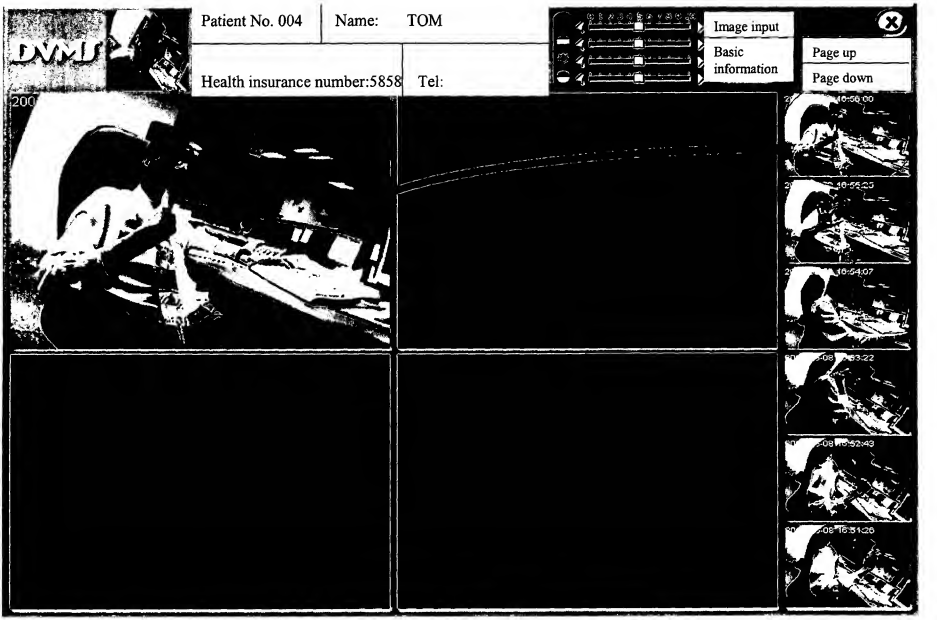
Patient No. 004
Name: TOM
Health insurance number:5858
Tel:
Image input
Basic information
Page up
Page down

Fig.5B

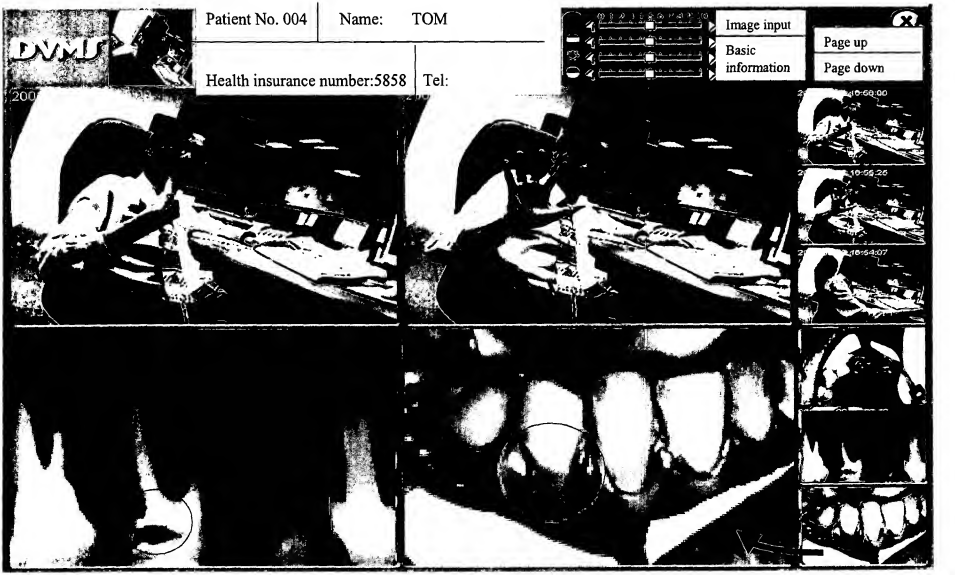
Patient No. 004
Name: TOM
Health insurance number:5858
Tel:
Image input
Basic information
Page up
Page down

Fig.5C

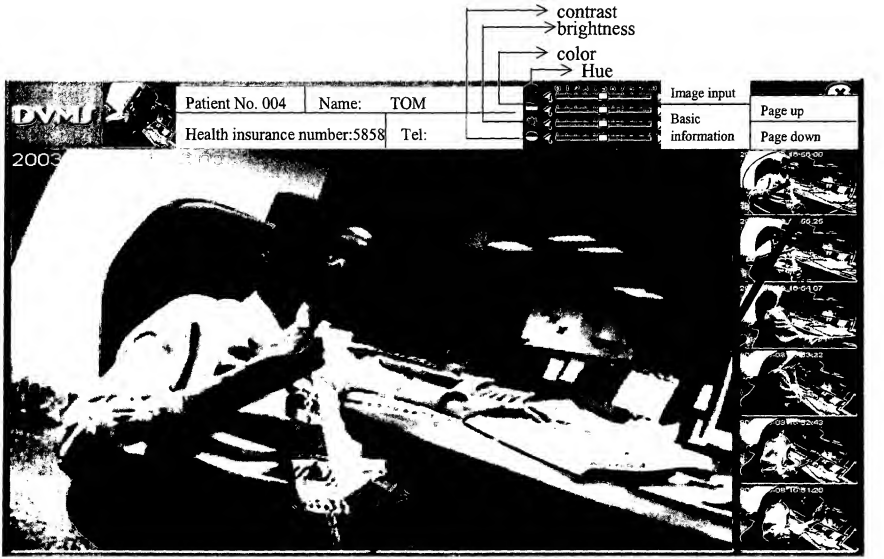
contrast
brightness
color
Hue
Patient No. 004
Name: TOM
Health insurance number:5858
Tel:
Image input
Basic information
Page up
Page down
2003

Fig.5D

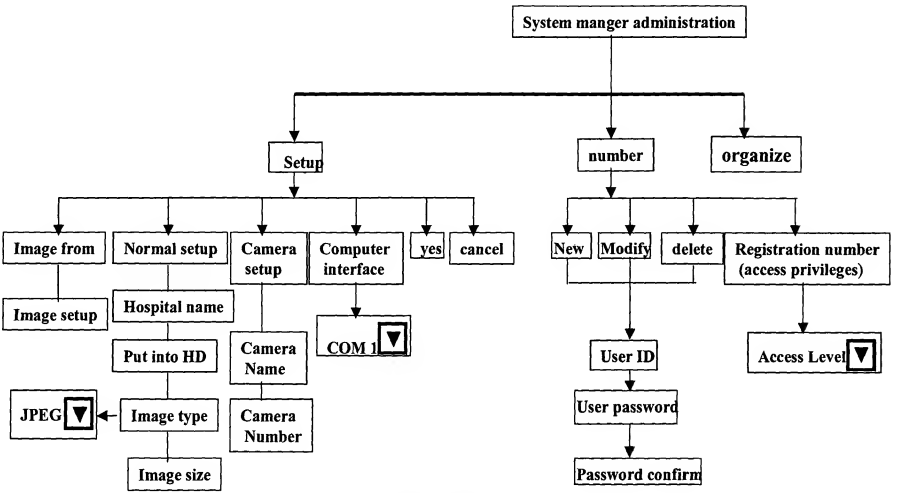
System manger administration
Setup
number
organize
Image from
Normal setup
Camera setup
Computer interface
yes
cancel
New
Modify
delete
Registration number (access privileges)
Image setup
Hospital name
Put into HD
Camera Name
COM 1
User ID
Access Level
JPEG
Image type
Camera Number
User password
Image size
Password confirm

Fig.6A

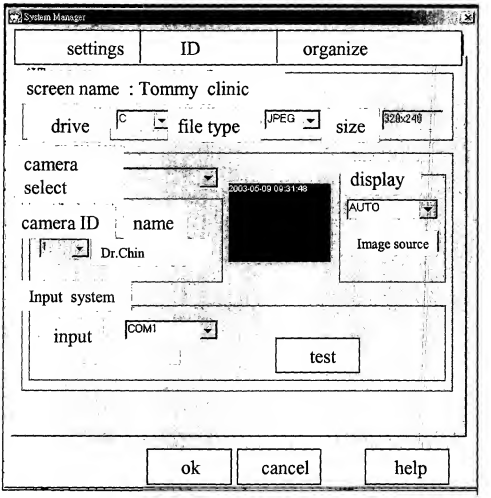
System Manager
settings
ID
organize
screen name : Tommy clinic
drive
C
file type
JPEG
size
320x240
camera
select
2003-06-09 09:31:48
display
AUTO
camera ID
name
1
Dr.Chin
Image source
Input system
input
COM1
test
ok
cancel
help

Fig.6B

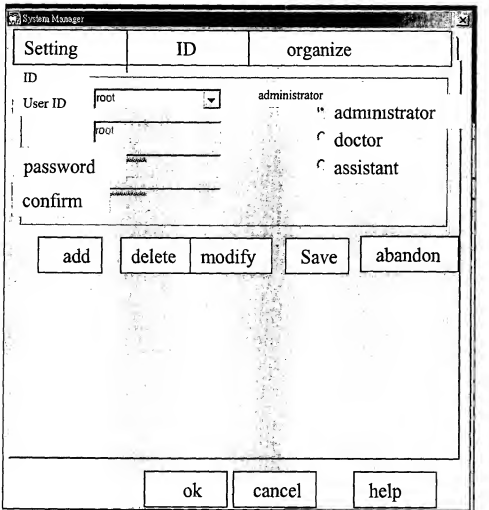
System Manager
Setting
ID
organize
ID
User ID
root
root
administrator
administrator
doctor
assistant
password
confirm
add
delete
modify
Save
abandon
ok
cancel
help

Fig.6C

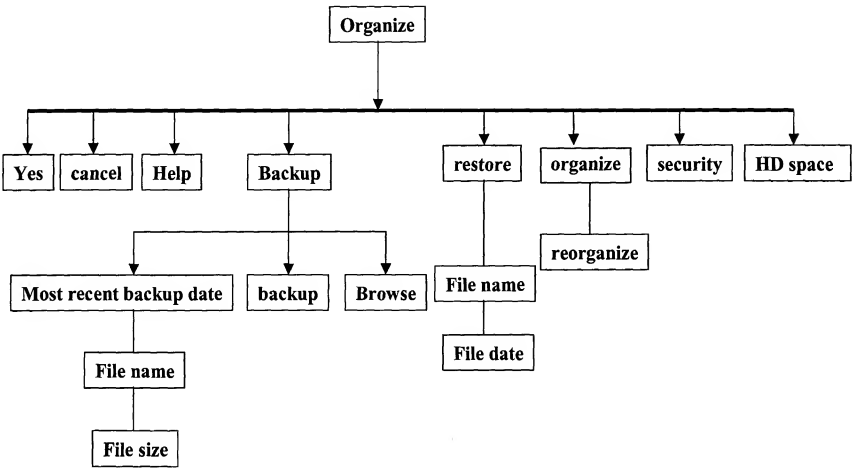
Organize
Yes
cancel
Help
Backup
restore
organize
security
HD space
reorganize
Most recent backup date
backup
Browse
File name
File name
File date
File size

Fig.7A

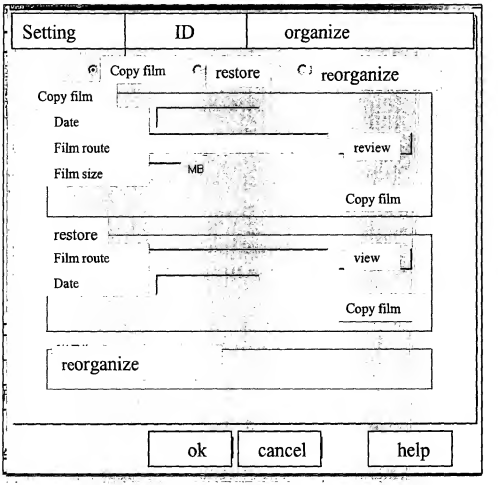
Setting
ID
organize
Copy film
restore
reorganize
Copy film
Date
Film route
Film size
MB
review
Copy film
restore
Film route
Date
view
Copy film
reorganize
ok
cancel
help

Fig.7B